

METHODS AND APPARATUS FOR CONTROLLING OPERATION OF
A DATA STORAGE SYSTEM

ABSTRACT OF THE DISCLOSURE

5 A data storage system includes power circuitry configured to provide power signals, storage processing circuitry configured to perform data storage operations, and a packaged microcontroller coupled to the power circuitry and the storage processing circuitry. The packaged microcontroller has input lines, output lines, and control circuitry coupled to the input lines and the output lines. The control circuitry is
10 configured to (i) receive, on the input lines, first power signals (e.g., voltage signals for I/O circuitry) which is provided by the power circuitry to the storage processing circuitry, (ii) wait a predetermined time period in response to receipt of the first power signals on the input lines, and (iii) output, through the output lines, enable signals to the power circuitry after waiting the predetermined time period. The enable signals directs
15 the power circuitry to provide second power signals to the storage processing circuitry (e.g., voltage signals for core circuitry).